INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sunder the Paperwork Reduction Act of 1995, no per control number.	U.S. Patent and Trademark	PTO/SEC (0 0-01) for use through 10/31/2002. OMB 06 4 00 1 to Office: U.S. DEPARTMENT OF COMILER on of information unless it contains a valid of B	#CENE	
Substitute for form 1449A/PTO		Complete if Known		
INFORMATION DIGOLOG	Application Number	09/489,657		
INFORMATION DISCLOS	URE Filing Date	JANUARY 21, 2000]	
STATEMENT BY APPLIC	ANT First Named Inventor	First Named Inventor RAYMOND A. JOAO		
6	Art Unit	3628		
(use as many sheets as necessary,	Examiner Name	D. KEE]	
Sheet 1 of 7	Attorney Docket Numb	er JB008		

	U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No. 1 Number - Kind Code ² (if known	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
<i>[//</i> /_	us-5,038,284					
	<u>us. 5, 708, 422</u>	<u> 01-13-19</u>	98 BLONDER, ET	AL.		
	<u>us 5,668,876</u>	<u> 09-16-19</u>	97 FALK, ET AL.			
	<u>us-5,615,110</u>	03-25-19	97 WONG			
	<u>us-3,938,090</u>	02-10-19	76 BORISON, ET 2	AL		
	US-5,173,594	12-22-19	9.2_MCCLURE			
	us 5,473,667	12-05-19	95 NEUSTEIN			
	us 3,723,655	03-27-19	73 ZUCKER, ET A	1		
[us-5,485,510	01-16-19	96 COLBERT			
	us 5,406,619	04-11-19	95 AKHTERUZZAMAN	L ET AL		
	<u> US-5,444,616</u>	08-22-19	95 NAIR. ET AL.			
	<u>us 5,513,250</u>	04-30-19	96 MCALLISTER 84 PEIRCE			
	us-4,485,300	<u>1</u> 1-27-19	84 PEIRCE			
	us-4,758,714	07-19-19	88 CARLSON, ET A	L.		
	US-4,947,027	08-07-19	90 GOLIGHTLY			
	us 5,357,563	10-18-19	94 HAMILTON, ET	AL.		
	us-5,526,407	06-11-19	94 HAMILTON, ET 96 RUSSELL, ET A	AL.		
	Us-5,243,645	09-07-19	93 BISSELL. ET A	L.		
-h1	us 5,444,763	08-22-19	95 LAZARIDIS, ET	AL.		
	lus-5.479.510	12-26-19	95 OLSEN. ET AL			
1111/			•			

11.						_		
FOREIGN PATENT DOCUMENTS								
Examiner Initials	Cite No. ¹	Foreign Patent Document Country Code3 -Number4 - Kind Code5 (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T6		
			><					
<u> </u>	<u> </u>							

Examiner Date Signature Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 8 Applicant is to place a check mark here if English language Translation is attached. English language Translation is attached.

Sheet	. 2	lof	7

Under the Paperwork Reduction Act of 1995, no persons are requested number.		PTO/SB/08A (10-01) r use through 10/31/2002. OMB 0651-0031 office: U.S. DEPARTMENT OF COMMERCE of information unless it contains a valid OMB	PKCKI,
Substitute for form 1449A/PTO	Co	mplete if Known) <i>O</i> G
INFORMATION DISCLOSURE	Application Number	09/489,657	
<u> </u>	Filing Date	JANUARY 21, 2000	1
STATEMENT BY APPLICANT	First Named Inventor	RAYMOND A. JOAO	1
(use as many sheets as necessary)	Art Unit	3628	1
	Examiner Name	D.KEE	1
Sheet 2 of 7	Attorney Docket Number	JB008)

Seaming Cite Initials No.1 Number - Kind Code (if known Figures Appear Figures Appear Figures Appear Figures Appear Number - Kind Code (if known Figures Appear Figures Appear Figures Appear Figures Appear Figures Appear Number - Kind Code (if known Figures Appear Figures Appear						
Number Kind Code Code			U.S. PATE	NT DOCUMENTS		
US-5,699,528 12-16-1997 HOGAN US-5,655,007 08-05-1997 MCALLISTER US-5,631,947 05-20-1997 WITTSTEIN, ET AL. US-5,661,285 08-26-1997 ELRICK, ET AI. US-5,345,595 09-06-1994 JOHNSON, ET AL. US-5,335,278 08-02-1994 MATCHETT, ET AL. US-5,177,342 01-05-1993 ADAMS US-5,530,438 06-25-1996 BICKHAM, ET AL. US-5,666,361 02-25-1997 DAVIDSOHN, ET AL. US-5,724,092 03-03-1998 DAVIDSOHN, ET AL. US-4,554,418 11-19-1985 TOY US-4,706,275 11-10-1987 KAMIL US-6,202,054 03-13-2001 LAWLOR, ET AL. US-5,870,724 02-09-1999 LAWLOR, ET AL. US-5,870,724 02-09-1999 LAWLOR, ET AL. US-5,870,724 02-09-1999 LAWLOR, ET AL.		e			Relevant Passages or Relevant	
	V /V	US-5,655,007 US-5,631,947 US-5,661,285 US-5,345,595 US-5,335,278 US-5,530,438 US-5,606,361 US-5,724,092 US-4,554,418 US-4,706,275 US-6,202,054 US-5,870,724 US-US- US-US-US-US-US-US-US-US-US-US-US-US-US-U	08-05-19 05-20-19 08-26-19 09-06-19 08-02-19 01-05-19 06-25-19 02-25-19 03-03-19 11-19-19 03-13-20	97 MCALLISTER 97 WITTSTEIN, ET 97 ELRICK, ET AI 94 JOHNSON, ET A 94 MATCHETT, ET 93 ADAMS 96 BICKHAM, ET A 97 DAVIDSOHN, ET 98 DAVIDSOHN, ET 95 TOY 97 KAMIL	AL. L. AL. AL. AL.	

	FOREIGN PATENT DOCUMENTS						
Examine Initials	Cite No. 1	Foreign Patent Document Country Code 3 - Number 4 - Kind Code 5 (if known)	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Rele vant Figures Appear	Т6	

Examiner Date Signature Considered

*EXAMINER: Initial if referen e considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional).

2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

5 Kind of document by the English language Translation is attached.

But do Hour Statement: This form is adjusted to the content of the patent of the patent of the patent of the patent document.

5 Kind of document by the English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it cont

Substitute for form 1449A/PTO

Examiner

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

7 3 of Sheet

U.S. Patent and Trademark O red to respond to a collection o	ffice: U.S. DEPARTMENT OF DMM-PRCE finformation unless it contains a major MB	VED 240
Co	mplete if Known	Y <i>U()</i>
Application Number	09/489,657	7
Filing Date	JANUARY 21, 2000	1
First Named Inventor	RAYMOND A. JOAO	1
Art Unit	3628	3
Examiner Name	D. KEE	
Attorney Docket Number	JB008)

	U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No. 1 Number - Kind Code ² (if known	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
	us5,453,601	09-26-199	5 ROSEN			
1	US5,642,419	06-24-199	7 ROSEN			
	us5,621,797	04-15-199	7 ROSEN			
	us5,557,518	09-17-199	6 ROSEN			
	us5,455,407	10-03-199	5 ROSEN			
	us4,877,950	10-31-198	9 HALPERN			
	us4,992,646					
	us5,030,806	07-09-199	1 COLLIN			
	us 5,221,838	06-22-199	3 GUTMAN, ET AL	•		
	US5,521,362					
	US5.534.683	07-09-199	6 RANKL, ET AL.			
	US5 438 184	08-01-199	5 ROBERTS, ET A	Т		
	us5,623,547	04-22-199	7 JONES, ET AL.			
	us4,977,595	12-11-199	0 OHTA, ET AL.			
	us5.224.162	06-29-199	3 ОКАМОТО, ЕТ А	Γ		
	US5,511,121	04-23-199	6 YACOBT			
	us5,903,830	05-11-199	9 JOAO, ET AL.			
	US5.878.337	03-02-199	9 JOAO, ET AL.			
Tk/	US6,047,270	04-04-200	0 JOAO, ET AL.			
שייר	US-					

FOREIGN PATENT DOCUMENTS						
Examiner Initials		Foreign Patent Document Country Code 3 - Number 4 - Kind Code 5 (# known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear T	

			A			

Signature Considered

Date

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English Language Translation is attached. English language Translation is attached.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet of

U.S. Patent and Trademark O	ruse through 10/31/2002 L MB 0/51,0031 ffice: U.S. DEPARTMENT OF COMMIRES E f information unless it contains a varie OMB	EVED
Coi	mplete if Known	PUD .
Application Number	09/489,657	1 ~
Filing Date	JANUARY 21, 2000	1
First Named Inventor	RAYMOND A. JOAO	1
Art Unit	3628	
Examiner Name	D. KEE	1
Attorney Docket Number	JB008)

		r <u> </u>	U.S. PATE	NT DOCUMENTS	
Examiner Initials		Document Number Number - Kind Code ² (if known		Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
141		us5,621,201	<u>04-15-199</u>	7 LANGHANS, ET	AL.
		<u> ∪s5,220,501</u>	06-15-199	3 LAWLOR ET AL	
		us5,839,063	11-17-199	8 LEE	
		0.005, 265, 033	11-23-199	3 VAJK, ET AL	
		us5,473,143	12-05-199	5 VAK, ET AL.	
		<u>us6,192,113</u>	02-20-200	1 LORSCH	
[· · · · · · · · · · · · · · · · · · ·	<u> 11-23-199</u>	9 WALLACE	
		US5, 903, 633	05-11-199	9 LORSCH	
		US5, / 19, 926	102-17-199	8 HTLL	
!		us5,825,863	<u> 10-20-199</u>	8 WALKER	
		us5,777,306	<u>07-07-199</u>	8_MASUDA	
! }		US5,640,447	<u>06-17-199</u>	7 FONSECA	
		us5,719,926	<u>02-17-199</u>	8 HILL	
<u> </u>			06-10-199		
<u> </u>		US5,621,787	04-15-199	7 MCKOY, ET AL	
<u> </u>		US5,563,934	10-08-199	6 EDA	
		US5,559,871	09-24-199	6 SMTTH	
!		US5,546,446	<u>08-13-199</u>	6 TSUNOKAWA, ET	AL.
		0.05,511,114	<u>04-23-199</u>	6 STIMSON, ET A	
		us 5,450,477	09-12-199	5 AMARANT, ET A	

		FORE	IGN PATENT D	OCUMENTS		_
Examiner Initials	Cite No:1	Foreign Patent Document Sourtry Code 3 - Number 4 - Kind Code 5 (if known)	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т6
<u> </u>	ļ					
	ļ					
	<u> </u>		-			

Examiner Date Signature Considered EXAMINER: Annial if reference

considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considere include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if

STATEMENT BY APPLICANT

Under the Paperwork Reduction Act of 1995, no persons are recontrol number.	U.S. Patent and Trademark O	PTO/SB/08A 10.37 ruse through 10/31/2002. OMB 065 100 ffice: U.S. DEPARTMENT OF COMMERC f information unless it contains a valid OMB	7 CE/1 3200
Substitute for form 1449A/PTO	Con	mplete if Known) Ga
	Application Number	09/489,657	1 00
INFORMATION DISCLOSURE	Filing Date	JANUARY 21, 2000] ~(
STATEMENT BY APPLICANT	First Named Inventor	RAYMOND A. JOAO]
	Art Unit	3628]
(use as many sheets as necessary)	Examiner Name	D. KEE	
Sheet 5 of 7	Attorney Docket Number	JB008)

		U.S. PATE	ENT DOCUMENTS	
Examiner Co	to. 1 Number - Kind Code ² (if known	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
-M4(us5,504,808	04-23-199	6 HAMRICK, JR. 6 STIMSON, ET A	<u></u>
	us5,255,182 us5,144,649	10-19-199 09-01-199 10-01-199	3 ADAMS 2 ZICKER, ET AL 1 CARLSON. ET A	
	us4,860,336 us4,831,647 us4,777,647	08-22-198 05-16-198 10-11-198	9 D'AVELLO, ET 9 D'AVELLO, ET 8 SMITH, ET AL.	AL.
In			7 TATEISI, ET A. 4 HALL, ET AL.	
	US- US- US-			
	US- US-	**** *********************************		

				<u> </u>	
	FORE	IGN PATENT D	OCUMENTS		_
	Foreign Patent Document Country Code3 -Number4 - Kind Code5 (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	_T.6
ļ					
	17				
	Cite No.1	Cite Foreign Patent Document	Cite Publication Date	Publication Date Name of Patentee of	Cite Foreign Patent Document Publication Date Name of Patentee or Where Relevant Passages

Examiner Signature Considered

Mitial if retained considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at <u>www.uspto.gov</u> or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Approved for use through U.S. Patent and Trademark Office: U.S. De Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information of

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet of

Substitute for form 1449A/PTO

Col	mplete if Known
Application Number	09/489,657
Filing Date	JANUARY 21, 2000
First Named Inventor	RAYMOND A. JOAO
Art Unit	3628
Examiner Name	D. KEE
Attorney Docket Number	JB008

	 · · · · · · · · · · · · · · · · · · ·	U.S. PATE	ENT DOCUMENTS	
Examiner Initials	 Document Number Number - Kind Code ² (if known		Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
-1994	 us-6,014,454	<u> 01-11-20</u>	00 KUNKLER	
{}	 <u>us-5,917,931</u>	<u> 06-29-19</u>	99 KUNKLER	
-1	 us. 5,737,440	<u>04-07-19</u>	99 KUNKLER 98 KUNKLER 98 KUNKLER, ET	
	 us-5,740,271	<u> 04-14-19</u>	98 KUNKLER, ET	AL.
1.6	 03-	***************************************		
	US-	***		
	 US	***************************************		
	 US-			
	· US-			

		FORE	IGN PATENT D	OCUMENTS		
Examiner Initials	Cite No. ¹	Foreign Patent Document Country Code 3 - Number 4 - Kind Code 5 (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	6

			$<\!\!-\!\!-$			
			* ***********************************			
			1			

Examiner Date Signature Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is satisfiated to take 2.0 hours to complete. Time will want decording wood the condendation in the condendation will be condended.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet of

31	U.S. Patent and Trademark Off	PTO/SB/08B (10-08) use through 10/31/2002. OMB 0651-003 lice: U.S. DEPARTMENT OF COMMERCE information unless (Commerce a validomy)
	Con	nplete if Known
1	Application Number	09/489,657
	Filing Date	JANUARY 21, 2000
	First Named Inventor	RAYMOND A. JOAO
	Group Art Unit	3628
	Examiner Name	D. KEE
	Attorney Docket Number	JB008

	OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²			
M		BRUCE SCHNEIER, APPLIED CRYPTOGRAPHY, 1996, Second Edition, WILEY, U.S.A.				
M		RAYMOND B. PANKO, BUSINESS DATA COMMUNICATIONS, 1997, PRENTICE HALL, U.S.A.				
M		SIMSON GARFINKEL, ET AL., WEB SECURITY & COMMERCE, 1997, O'REILLY & ASSOCIATES, INC.,U.S.	Α.			
M		LESLIE L. LESNICK, ET AL., CREATING COOL INTELLIGENT AGENTS FOR THE NET, 1997, IDG BOOKS WORLDWIDE, INC. U.S.A.				
M		NABIL R. ADAM, ET AL., ELECTRONIC COMMERCE TECHNICAL, BUSINESS, AND LEGAL ISSUES, 1999, PRENTICE HALL PTR, U.S.A.				
M		ALPER CAGLAYAN, ET AL., AGENT SOURCEBOOK A COMPLETE GUIDE TO DESKTOP, INTERNET, AND INTRANET AGENTS, 1997, WILEY, U.S.A.				

Examiner Date Signature Considered

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.